



STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/572,348
Source: JFLSP
Date Processed by STIC: 02/08/2007

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/572,348

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 Use of <220> Sequence(s) _____ missing (in <220> "Feature" and associated numeric identifiers and responses). Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32; also Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:29

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02082007\J572348.raw

3 <110> APPLICANT: Novo Nordisk A/S
5 <120> TITLE OF INVENTION: Novel GLP-1 derivatives
7 <130> FILE REFERENCE: 6692-WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/572,348
C--> 9 <141> CURRENT FILING DATE: 2006-03-17
9 <160> NUMBER OF SEQ ID NOS: 5
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 31
15 <212> TYPE: PRT
16 <213> ORGANISM: Homo sapiens
18 <400> SEQUENCE: 1
20 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
21 1 5 10 15
24 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
25 20 25 30
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 40
30 <212> TYPE: PRT
31 <213> ORGANISM: Synthetic construct
33 <220> FEATURE:
34 <221> NAME/KEY: MISC_FEATURE
35 <222> LOCATION: (1)..(1)
36 <223> OTHER INFORMATION: Xaa at position 1 is L-histidine, D-histidine, desamino-histidine
37 , 2-amino-histidine, beta-hydroxy-histidine, homohistidine, N-alpha-acetyl-histidine, alpha-fluoromethyl-histidine, alpha-methyl-histidine, 3-pyridylalanine, 2-pyridylalanine, or 4-pyridylalanine
38
39
W--> 40
43 <220> FEATURE:
44 <221> NAME/KEY: MISC_FEATURE
45 <222> LOCATION: (2)..(2)
46 <223> OTHER INFORMATION: Xaa at position 2 is Ala, Gly, Val, Leu, Ile, Lys, Aib, (1-aminocyclopropyl) carboxylic acid, (1-aminocyclobutyl) carboxylic acid, (1-aminocyclopentyl) carboxylic acid, (1-aminocyclohexyl) carboxylic acid, (1-aminocycloheptyl) carboxylic acid or (1-aminocyclooctyl) carboxylic acid.
53 <220> FEATURE:
54 <221> NAME/KEY: MISC_FEATURE
55 <222> LOCATION: (10)..(10)
56 <223> OTHER INFORMATION: Xaa at position 10 is Val or Leu.
59 <220> FEATURE:
60 <221> NAME/KEY: MISC_FEATURE

Does Not Comply
Corrected Diskette Needed
(pg-1,5,6)

? Invalid Response.
213? Responses are Artificial,
Unknown or Generic species.
Pls see Item 10
on Error
Summary
Sheet.

61. <222> LOCATION: (12) .. (12)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:29

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02082007\J572348.raw

62 <223> OTHER INFORMATION: Xaa at position 12 is Ser, Lys or Arg.
65 <220> FEATURE:
66 <221> NAME/KEY: MISC_FEATURE
67 <222> LOCATION: (13)..(13)
68 <223> OTHER INFORMATION: Xaa at position 13 is Tyr or Gln.
71 <220> FEATURE:
72 <221> NAME/KEY: MISC_FEATURE
73 <222> LOCATION: (14)..(14)
74 <223> OTHER INFORMATION: Xaa at position 14 is Leu or Met.
77 <220> FEATURE:
78 <221> NAME/KEY: MISC_FEATURE
79 <222> LOCATION: (16)..(16)
80 <223> OTHER INFORMATION: Xaa at position 16 is Gly, Glu or Aib.
83 <220> FEATURE:
84 <221> NAME/KEY: MISC_FEATURE
85 <222> LOCATION: (17)..(17)
86 <223> OTHER INFORMATION: Xaa at position 17 is Gln, Glu, Lys or Arg.
89 <220> FEATURE:
90 <221> NAME/KEY: MISC_FEATURE
91 <222> LOCATION: (19)..(19)
92 <223> OTHER INFORMATION: Xaa at position 19 is Ala or Val.
95 <220> FEATURE:
96 <221> NAME/KEY: MISC_FEATURE
97 <222> LOCATION: (20)..(20)
98 <223> OTHER INFORMATION: Xaa at position 20 is Lys, Glu or Arg.
101 <220> FEATURE:
102 <221> NAME/KEY: MISC_FEATURE
103 <222> LOCATION: (21)..(21)
104 <223> OTHER INFORMATION: Xaa at position 21 is Glu or Leu.
107 <220> FEATURE:
108 <221> NAME/KEY: MISC_FEATURE
109 <222> LOCATION: (24)..(24)
110 <223> OTHER INFORMATION: Xaa at position 24 is Ala, Glu or Arg.
113 <220> FEATURE:
114 <221> NAME/KEY: MISC_FEATURE
115 <222> LOCATION: (27)..(27)
116 <223> OTHER INFORMATION: Xaa at position 27 is Val or Lys.
119 <220> FEATURE:
120 <221> NAME/KEY: MISC_FEATURE
121 <222> LOCATION: (28)..(28)
122 <223> OTHER INFORMATION: Xaa at position 28 is Lys, Glu, Asn or Arg.
125 <220> FEATURE:
126 <221> NAME/KEY: MISC_FEATURE
127 <222> LOCATION: (29)..(29)
128 <223> OTHER INFORMATION: Xaa at position 29 is Gly or Aib.
131 <220> FEATURE:
132 <221> NAME/KEY: MISC_FEATURE
133 <222> LOCATION: (30)..(30)
134 <223> OTHER INFORMATION: Xaa at position 30 is Arg, Gly or Lys.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:29

Input Set : A:\sequence listing.txt
Output Set: H:\CRF4\02082007\J572348.raw

137 <220> FEATURE:
138 <221> NAME/KEY: MISC_FEATURE
139 <222> LOCATION: (31)..(31)
140 <223> OTHER INFORMATION: Xaa at position 31 is Gly, Ala, Glu, Pro, Lys, amide or is absent
141
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (32)..(32)
147 <223> OTHER INFORMATION: Xaa at position 32 is Lys, Ser, amide or is absent.
150 <220> FEATURE:
151 <221> NAME/KEY: MISC_FEATURE
152 <222> LOCATION: (33)..(33)
153 <223> OTHER INFORMATION: Xaa at position 33 is Ser, Lys, amide or is absent.
156 <220> FEATURE:
157 <221> NAME/KEY: MISC_FEATURE
158 <222> LOCATION: (34)..(34)
159 <223> OTHER INFORMATION: Xaa at position 34 is Gly, amide or is absent.
162 <220> FEATURE:
163 <221> NAME/KEY: MISC_FEATURE
164 <222> LOCATION: (35)..(35)
165 <223> OTHER INFORMATION: Xaa at position 35 is Ala, amide or is absent.
168 <220> FEATURE:
169 <221> NAME/KEY: MISC_FEATURE
170 <222> LOCATION: (36)..(36)
171 <223> OTHER INFORMATION: Xaa at position 36 is Pro, amide or is absent.
174 <220> FEATURE:
175 <221> NAME/KEY: MISC_FEATURE
176 <222> LOCATION: (37)..(37)
177 <223> OTHER INFORMATION: Xaa at position 37 is Pro, amide or is absent.
180 <220> FEATURE:
181 <221> NAME/KEY: MISC_FEATURE
182 <222> LOCATION: (38)..(38)
183 <223> OTHER INFORMATION: Xaa at position 38 is Pro, amide or is absent.
186 <220> FEATURE:
187 <221> NAME/KEY: MISC_FEATURE
188 <222> LOCATION: (39)..(39)
189 <223> OTHER INFORMATION: Xaa at position 39 is Ser, amide or is absent.
192 <220> FEATURE:
193 <221> NAME/KEY: MISC_FEATURE
194 <222> LOCATION: (40)..(40)
195 <223> OTHER INFORMATION: Xaa at position 40 is amide or is absent.
198 <400> SEQUENCE: 2
200 Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Xaa Ser Xaa Xaa Xaa Glu Xaa
201 1 5 10 15
204 Xaa Ala Xaa Xaa Xaa Phe Ile Xaa Trp Leu Xaa Xaa Xaa Xaa Xaa Xaa
205 20 25 30
208 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
209 35 40
212 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:29

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02082007\J572348.rav

213 <211> LENGTH: 32
 214 <212> TYPE: PRT
 215 <213> ORGANISM: Synthetic construct → Same Error
 217 <220> FEATURE:
 218 <221> NAME/KEY: MISC_FEATURE
 219 <222> LOCATION: (1)..(1)
 220 <223> OTHER INFORMATION: Xaa at position 1 is L-histidine, D-histidine, desamino-histidine
 221 , 2-amino-histidine, beta-hydroxy-histidine, homohistidine, N-alp
 222 ha-acetyl-histidine, alpha-fluoromethyl-histidine, alpha-methyl-h
 223 istidine, 3-pyridylalanine, 2-pyridylalanine, or 4-pyridylalanine
 W--> 224
 227 <220> FEATURE:
 228 <221> NAME/KEY: MISC_FEATURE
 229 <222> LOCATION: (2)..(2)
 230 <223> OTHER INFORMATION: Xaa at position 2 is Ala, Gly, Val, Leu, Ile, Lys, Aib, (1-aminoc
 231 cyclopropyl) carboxylic acid, (1-aminocyclobutyl) carboxylic acid,
 232 (1-aminocyclopentyl) carboxylic acid, (1-aminocyclohexyl) carboxy
 233 lic acid, (1-aminocycloheptyl) carboxylic acid or (1-aminocyclooc
 W--> 234 tyl) carboxylic acid.
 237 <220> FEATURE:
 238 <221> NAME/KEY: MISC_FEATURE
 239 <222> LOCATION: (12)..(12)
 240 <223> OTHER INFORMATION: Xaa at position 12 is Ser, Lys or Arg.
 243 <220> FEATURE:
 244 <221> NAME/KEY: MISC_FEATURE
 245 <222> LOCATION: (16)..(16)
 246 <223> OTHER INFORMATION: Xaa at position 16 is Gly, Glu or Aib.
 249 <220> FEATURE:
 250 <221> NAME/KEY: MISC_FEATURE
 251 <222> LOCATION: (17)..(17)
 252 <223> OTHER INFORMATION: Xaa at position 17 is Gln, Gly, Lys or Arg.
 255 <220> FEATURE:
 256 <221> NAME/KEY: MISC_FEATURE
 257 <222> LOCATION: (20)..(20)
 258 <223> OTHER INFORMATION: Xaa at position 20 is Lys, Glu or Arg.
 261 <220> FEATURE:
 262 <221> NAME/KEY: MISC_FEATURE
 263 <222> LOCATION: (24)..(24)
 264 <223> OTHER INFORMATION: Xaa at position 24 is Ala, Glu or Arg.
 267 <220> FEATURE:
 268 <221> NAME/KEY: MISC_FEATURE
 269 <222> LOCATION: (28)..(28)
 270 <223> OTHER INFORMATION: Xaa at position 28 is Lys, Glu or Arg.
 273 <220> FEATURE:
 274 <221> NAME/KEY: MISC_FEATURE
 275 <222> LOCATION: (29)..(29)
 276 <223> OTHER INFORMATION: Xaa at position 29 is Gly or Aib.
 279 <220> FEATURE:
 280 <221> NAME/KEY: MISC_FEATURE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:29

Input Set : A:\sequence listing.txt
Output Set: B:\CRF4\02082007\J572348.raw

281 <222> LOCATION: (30)..(30)
 282 <223> OTHER INFORMATION: Xaa at position 30 is Arg or Lys..
 285 <220> FEATURE:
 286 <221> NAME/KEY: MISC_FEATURE
 287 <222> LOCATION: (31)..(31)
 288 <223> OTHER INFORMATION: Xaa at position 31 is Gly, Ala, Glu or Lys.
 291 <220> FEATURE:
 292 <221> NAME/KEY: MISC_FEATURE
 293 <222> LOCATION: (32)..(32)
 294 <223> OTHER INFORMATION: Xaa at position 32 is Lys, amide or is absent.
 297 <400> SEQUENCE: 3
 W--> 299 Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Xaa Tyr Leu Glu Xaa
 300 1 5 10 15
 303 Xaa Ala Ala Xaa Glu Phe Ile Xaa Trp Leu Val Xaa Xaa Xaa Xaa Xaa
 304 20 25 30
 307 <210> SEQ ID NO: 4
 308 <211> LENGTH: 39
 309 <212> TYPE: PRT
 310 <213> ORGANISM: Gila monster
 312 <220> FEATURE:
 313 <221> NAME/KEY: MISC_FEATURE
 314 <222> LOCATION: (39)..(39)
 315 <223> OTHER INFORMATION: Amidation of carboxy group.
 318 <400> SEQUENCE: 4
 320 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 321 1 5 10 15
 324 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 325 20 25 30
 328 Ser Gly Ala Pro Pro Pro Ser
 329 35
 332 <210> SEQ ID NO: 5
 333 <211> LENGTH: 44
 334 <212> TYPE: PRT
 335 <213> ORGANISM: Synthetic construct
 337 <220> FEATURE:
 338 <221> NAME/KEY: MISC_FEATURE
 339 <222> LOCATION: (44)..(44)
 340 <223> OTHER INFORMATION: Amidation of carboxy group.
 343 <400> SEQUENCE: 5
 345 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 346 1 5 10 15
 349 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 350 20 25 30
 353 Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys Lys
 354 35 40

same entry

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:30

Input Set : A:\sequence listing.txt
Output Set: H:\CRF4\02082007\J572348.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 1,2,10,12,13,14,16,17,19,20,21,24,27,28,29,30,31,32,33,34

Seq#:2; Xaa Pos. 35,36,37,38,39,40

Seq#:3; Xaa Pos. 1,2,12,16,17,20,24,28,29,30,31,32

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/572,348

DATE: 02/08/2007
TIME: 11:42:30

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02082007\J572348.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:40 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:50 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:224 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:234 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3